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(Continued from Previous Issues.)

to shares which are marketable under value as laborers in the islands, are the provisions of their charters, and are questions yet to be settled. tations or the stores of Honolulu.

To maintain the fertility of the soil where only one crop is grown (for they 25,000. have no rotation, no restorative crop), idends on stock, is the object of their

tles and home comforts, preferring althen return to China or Japan, or rush and kahuna practice. ban pursuits. Such estates are not con-ducive to permanent settlers, steady yeo-diminishing factor in his own country manry, prosperous farmers, which are for only a few more years, that the tagonism prevalls against such estates, as a separable element, and a demand is made that the large Since annexation the Chinese are exyear, \$22,628,741, of which over \$22,000,000 resources are raised for public improvewhether the present conditions will be farmers, market gardeners, dairymen,

stock breeders on the islands. lands, now public lands for the United whelm a Caucasian. Malaria is as fatal States, and when these leases expire to colored races as it is to white. there will be quite a contest over future

lisposition of them.
Under the Kingdom and Republic of all Japanese and Portuguese on the island the French in Reunion and were imported under these treaties. Lastly, it will not do to it By abrogating contract labor the Japan-ese and Portuguese were liberate; and flora, must all be considered. by the Geary law, Chinese are excluded. It is ignorance to place Honolulu in planters are trying to meet by introduc- same positions relative to me equator,

These corporations are being divided in- whether the negroes will prove of any

A word about the natives, and we are subject to daily fluctuations upon the through. They are rapidly disappearing current required, stock exchange of Honolulu, which bear The tendency of the savage races to disappear when brought in contact with odor, which is perceptible in certain appear relation to the state or value of the estate. These corporations appear when brought in contact with odor, which is perceptible in certain civilization has been much discussed. parts of the city, especially in the even-time of the estate. These corporations appear when brought in contact with odor, which is perceptible in certain civilization has been much discussed. Darts of the city, especially in the even-time of the estate. These corporations are represented in the civilization has been much discussed. Darts of the city, especially in the even-time of the estate. These corporations are represented in the civilization has been much discussed. Darts of the city, especially in the even-time of the estate. ave or sink solely by sugar. They must sian doctrine does not hold true. Even organic matter, and Government inspectpay their way or close up. When the prior to contact with the whites, and ors found it to persist after certain san-deKinley bill passed Congress several amid a plentiful food supply, they barely itary improvements had been made. It hold their own in numbers or diminish, has been traced at last to the manufacears ago, placing raw sugars on the and this in some cases apart from the ree list and giving a bounty to the do- results of war and the practice of infanto be insensible to these in quantity, the mestic producers, thus depriving Hawaii ticide. Contact with civilization com- odor appearing only at a distance giving mestic producers, thus depriving Hawaii monly accentuates this process of decay sufficient dilution. of the benefit of the reciprocity treaty, where it is present, and often introduces. A new coffee is he great agencies and plantations of it where it was not found before. Cook of the Paris Academy. It grows wild Hawaii tottered to their fall. Some fell; estimated the number of Hawaiians, in in an island off the coast of Africa, and others were saved by outside capital. A 1778, at 400,000 and this view has been its striking peculiarity is that it is entabor crisis, a prolonged quarantine, or confirmed by competent observers, tirely without caffeine, to which ordinary a suspension of ocean traffic would work among the early residents, basing their coffee owes its excitant properties. A sore disaster even to those estates which judgment on the extensive architectural have enormous capital, since at no time and other remains everywhere existing, taken as a beverage at night without is there a superabundance of food for Vancouver noted an apparent depopula- risk of insomnia. The botanical characman or beast in the pastures of the plan- tion between his first and last visits. In teristics are practically those of ordinary bers at 142,000. Today they number about in chemical composition, and distinguish-

thought is how to keep the average qual-ity of land from going out of cultivation. bility, or birth rate to death rate. Ever How can expenses be reduced and crops since the Hawalians have been known to enhanced, so as to secure the largest div- civilization, the birth rate has been low and death rate high. Many causes have been assigned for the small birth rate, Such estates are destructive of family which need not be discussed here. The les and home comforts, preferring al-causes for the high death rate are more ways to employ single men, and object- easily determined. Those now operating ing seriously to women and children, are, infectious and contagious diseases, Hence adaptability of Asiatics to such excessive use of alcoholic drinks, change work, who serve their contract time and of physical and psychical habit, leprosy

to the cities or towns to engage in ur- It can be predicted with certainty that regarded as the pride and reliance of ev- part Hawalians will increase in numbers ery nation. In the islands a strong an- for a time and then gradually disappear

areas owned by the Crown (now United cluded directly, and the Japanese indi-States Government) and now leased by rectly, under our contract laws. There-the sugar corporations, shall be divided fore the number of Asiatics will graduand subdivided into homesteads at the ally diminish on the islands. The islands expiration of the lease, for occupancy by must therefore be peopled with Europe-permanent farmers or gardeners. On the ans or Americans, if the population is to contrary, it may be stated that there is be maintained. Labor to make sugar probably no industry besides sugar that must be had, and the American negro or can give such enormous acre yields in the white man must supply it, provided money and bear the heavy cost of expen- it is found that the latter can work unsive irrigation plants, steam plows, etc. der tropical conditions, with a fair de-The exports of the Islands were last gree of comfort and efficiency, and the industry can afford to pay attractive were furnished by sugar. Again, these wages. These are now the dominant solarge acre yields give enormous taxable cial questions of the islands, and years values to the lands, from which public will be required for their solution. It has clearly been shown that hygienic ments, public schools, roads, etc. It is, habits and sanitary conditions have therefore, a question of serious moment greatly lowered the mortality of Europeans in tropical countries. It has been improved by the establishment of small further shown that there is no deterioration of European stock by long residence in the tropics. It is believed also that Few corporations own their entire field labor in the tropics can be borne as plantations. A large part of the lands easily by the white as by any other now in sugar are held under long lease. race. Temperature taken by itself, wheth-About one-third of them are old Crown er high or low, cannot repel or over-

Again, a distinction must always be made among European peoples as concerns their facility of acclimatization in Hawaii, there was a treaty between Ja- hot regions, the Dagos, as in Louisiana, pan and Portugal which permitted what Spaniards in Cuba, and Central and was called "contract labor," and Jence South America, Portuguese in Hawait.

Lastly, it will not do to lump all trop-There never was any treaty with China, ical countries together. Isothermal lines and the Chinese came of their own ac- must be reckoned as well as parallels of cord, often in numbers beyond require- latitude, and differences of location, inment. Annexation has changed all this, sular, continental, coastwise, interior:

from Uncle Sam's domain. This has the same climatic class with Timbuctoo brought about a labor crisis which the or Bombay, though occupying nearly the ing the Southern and Porto Rican ne-groes. Whether they will succeed in se-curing enough of them, and, if they do Pacific."

White labor may yet dominate Hawali and make it truly the "Paradise of the Pacific."

Scientific Miscellany

heroic age. No map extant gives the ascent, where it has been deflected upstraight lines running east and west and successive years 1882 to 1885, inclusive. north and south, but this arrangement An attempt has been made to associate has the objection that the direction of the very cold days with the sun-spot cythe lines will change, owing to preces- cle, and there seems to be a tendency to sion. Astronomers generally now recog- greater cold before the maximum of nize eighty-nine constellations in the sun-spots than after. being counted as four distinct con-

strength, and acquiring a drawn, anx- the active agent in vaccine virus and apression about the mouth. If probably also of smallpox. working in copper is continued, the case usually goes from bad to worse, although some persons acquire a toleration of the poison. No specific is known, and the production of more than \$150,000,000, of practical remedy is change of occupation. Rails in tunnels have been found by between 60 and 70 per cent; Germany and a English engineer to lose sometimes France about 10 per cent each, Swtzermost affected containing an excess haps 11/2 per cent. moist vapors of the tunnel.

for means of lessening its dangers.

constellations were mapped out, says thickness of five or six miles of the Professor Simon Newcomb, but the earth's crust. Any body of ore may have been left by water in its descent from names given indicate that it was in the the surface, in its lateral flow, or in its exact placing of the figures by the an- ward. Reasons are found for believing cients, although Ptolemy has designated that the first deposits were at the lowest depths by the ascending currents, and as precisely as he could the positions of that the later deposits by the descending particular stars on the supposed body of and lateral currents were the richer, and each hero, goddess and animal. The fig- this view is confirmed by the experience each hero, goddess and animal. The fig-ures could not have covered the entire low the 300-meter level than above it, heavens, and in order that every star and still poorer below the 600-meter level. may belong to some constellation, mod- The coldest day at Greenwich Observern astronomers have marked out irreg- atory in the last sixty years was Januular patches, each including the entire figure recognized of old. The outlines was 4 degrees. In this period of sixty years there were 162 days having a minare still so inexact, however, that a sin- imum temperature below 20 degrees, the gle star may be placed by two astronomers in two constellations. Dr. Gould has tried to remedy the confusion in the southern hemisphere by changing the boundaries of the constellations to the longest period having been the content of the longest period having been the courtered to the longest period having been the longest period having been the courtered to the longest period having been the longest period having been

tire heavens, the ancient southern Ar- In an attempt to solve the problem of the active agent in vaccine virus. Dr. Nakanishi has isolated a bacillus whose poisoning is becoming quite cultures resemble the diphtheria bacilnon, according to Dr. H. A. Kurth, lus. Inoculations upon animals gave migh it is not always recognized, urcertain results. Tried in the arms of The list symptoms are dyspepsia, anac-children, however, what seemed to be mia and nervousness and irritability, the typical vaccine vesicles were produced, partient soon becoming emaciated, losing and it is concluded that this bacillus is

ly 4 per cent of their weight yearly, land about 2 per cent, and England per-

phur. In north and south ralls, The increased dread of rats that has arisen increases the corrosive action moist vapors of the tunnel.

The increased dread of rats that has arisen from their agency in spreading plague has led J. Danysz to experiment neans of extermination. Havfective substitute for benzine or ing isolated a new organism-a short The ores of our mines were probably rats, he has cultivated this organism in SANG LEE CHAN deposited by circulating waters. Dr. C. broth and on gelatine, repeatedly pass-R. Van Hise finds that the weight of ing it through rats, and has thus great-EVERYTHING FIRST-CLASS. TABL. BOARD \$5 PER WEEK.

TA
rocks must close all cavities at a depth by augmented its virulence. Of 200 rats of 20,000 meters, and in most rocks at fed on bread steeped in a broth culture, half that depth, so that the circulation 80 died within three weeks. In a practiof water and formation of ore deposits cal trial in a store and in some stables,

a great decrease in the number of rats was apparent after the first scattering of the disease germs.

An exhaustive study of the metals that may be used for pipes and containers for petroleum and rapeseed oils and acetic acid has been made by Herr Gar valowsky. Crude petroleum is found to have no action on copper, nickel, alum-inum, tin and iron, but may affect zinc and lead. For purified petroleum, lead, copper, iron, brass, nickel, tin and argentan are sultable, aluminum and zinc being less so, and phosphor bronze wholly unfit. For rapeseed oil mills, lead, per-bronze and phosphor-bronze being tan may be used, but no iron, aluminum or zinc. Acetic acid should come in contact only with nickel, aluminum and

Electric smelting is a development that has been forced upon Swiss metallurgists by the scarcity of coal. Hematite ore from the Bernese Oberland, near Meiningen, is to be transported by an aerial ropeway to the village of Innert Kirchen, where the electric smelter will be established. A concession has been obtained, permitting the use of 60,000 horsepower from the river Aar for generating the

Paris is stated to have a characteristic odor, which is perceptible in certain ture of superphosphates. The nose seems

A new coffee is puzzling the scientists consequent advantage is that it may be 1823 the missionaries estimated the num- coffee, but there is a distinct difference ed German and French botanists have been unable to decide whether it belongs and that in maximum quantities, requires from the effects of infanticide, human to the same species as ordinary coffee, rare sagacity. On the estate the one sacrifice, pestilence and famine, is deter- or should rank as a new species. Ordinary coffee growing on the same island contains 1.3 per cent of caffeine,

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is the sign of life, of vital force, of the force that life has, of the force that life is.

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